



## AGENDA

**January 31- February 3, 2016**  
**Bella Rosa Event Center**  
**7986 Tesla Road**  
**Livermore, California 94550**

**Sunday, January 31, 2016**

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5:00 - 7:00 p.m.      Registration/Reception  
                              **Location: Hilton Garden Inn, Livermore, CA**

**Monday, February 1**

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7:30 a.m.              Continental Breakfast  
                              Registration Continues  
                              Location: Bella Rosa

8:15                    **Opening Session**  
                              Session Chair: NIF User Office Director, Kevin Fournier

**Welcome and Status Update**

Chair, NIF User Group, University of Chicago, Don Lamb  
Chair, JLF User Group, University of Michigan, Carolyn Kuranz  
Jeff Wisoff, NIF & Photon Science Principal Associate Director

8:30                    ***The Role of NIF at LLNL and as an International Science Facility***  
                              Patricia Falcone, LLNL Deputy Director for Science and Technology

8:45                    ***Status of Discovery Science Experiments on NIF***  
                              Kirk Levedahl, NNSA

9:15                    ***Status of the NIF***  
                              Mark Herrmann, NIF Director

9:45                    ***NIF User Office: What's New for Users at NIF***  
                              Kevin Fournier, Lawrence Livermore National Laboratory

10:15                  Break



10:30

**Session I: Current NIF Experiments** (4, 30-minute talks)

Chair, NIF User Group, University of Chicago, Don Lamb

***Progress Towards X-Ray Scattering Diagnostics of Matter at Extreme Densities***

Paul Neumayer, GSI Helmholtzzentrum für Schwerionenforschung

***Progress on Probing Crystal Structure of High-Density Diamond Using X-Ray Diffraction on the NIF***

Amy Lazicki-Jenei, Lawrence Livermore National Laboratory

***Journey to the Center of a Super-Earth: Sound Speed and Density of Iron to 10 Mbar***

Dayne Fratanduono, Lawrence Livermore National Laboratory

***Precision Measurements of Stopping Power in Degenerate, Strongly-Coupled Plasmas***

Ryan Rygg, Lawrence Livermore National Laboratory

12:30 p.m.

Group Photo and Lunch

1:30

**Session II: New NIF Experiments** (5, 20-minute talks)

Session Chair: Discovery Science Program Manager, Bruce Remington

***Laser-Driven Magnetic Field Generation on the NIF***

Bradley Pollock, Lawrence Livermore National Laboratory

***Towards Relativistic Pair Plasma Creation Using NIF Facility***

Hui Chen, Lawrence Livermore National Laboratory

***Studying Magnetic Reconnection in Large-System Size, Low Dissipation Regimes with the NIF***

Will Fox, Princeton Plasma Physics Laboratory

***Characterization of NIF ARC Produced High Energy Bremsstrahlung for X-Ray Radiography***

Hiroshi Sawada, University of Nevada-Reno

***Experimental Measurement at the NIF of Electron-Mediated Nuclear Plasma Interactions***

Andrew Ratkiewicz, Lawrence Livermore National Laboratory

3:00-5:30

**Break and Poster Session I**



**Tuesday, February 2**

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|-----------|---|
| 7:30 a.m. | Continental Breakfast<br>Registration Continues<br>Location: Bella Rosa   |
| 8:00      | <b>Opening Remarks</b><br>Carolyn Kuranz, Jupiter User Group<br>Henry Shaw, Physical and Life Sciences, Deputy Associate Director   |
| 8:10      | <b><i>Office of Science's Perspective on JLF and NIF, and the OFES-NNSA Joint Program in HEDLP</i></b><br>Sean Finnegan, DOE/Office of Science  |
| 8:20      | <b>Session III: Jupiter Experiments</b> (6, 20-minute talks)<br>Session Chair: Carolyn Kuranz<br><br><b><i>High Power Dynamic Polarization Control Using Plasma Photonics</i></b><br>David Turnbull, Lawrence Livermore National Laboratory<br><br><b><i>Laser-Driven Proton Acceleration from Cryogenic Hydrogen Jets</i></b><br>Chandra Curry, University of Alberta and SLAC National Accelerator Laboratory<br><br><b><i>Creation of Ultra-High Energy Density Matter Using Nanostructured Targets on Titan Laser</i></b><br>Jaebum Park, Lawrence Livermore National Laboratory<br><br><b><i>Laser Wakefield Acceleration Research at the Jupiter Laser Facility</i></b><br>Jessica Shaw, University of California - Los Angeles<br><br><b><i>Laser-Driven Magnetic Field in Quasi-Hohlraum Geometries: from JLF to NIF</i></b><br>Clement Goyon, Lawrence Livermore National Laboratory<br><br><b><i>Using Laser-Driven Shock-Loading for Improving Constitutive Models of Asteroidal Materials</i></b><br>Laura Chen, Imperial College |
| 10:20     | Break   |
| 10:45     | <b><i>Status of the JLF</i></b><br>Bob Cauble, Jupiter Laser Facility Manager   |



- 11:30                    **JLF User Group Meeting**  
Session Chair: Carolyn Kuranz
- 12:30                    Lunch
- 1:30                    ***Status of Thomson Scattering on NIF***  
Steve Ross, Lawrence Livermore National Laboratory
- Status of ARC on NIF***  
David Martinez, Lawrence Livermore National Laboratory
- NIF User Group Meeting**  
Session Chair: Don Lamb
- 3:00 - 5:30            Break and Poster Session II**
- 6:00 – 8:00            Reception  
Banquet  
Location: Bella Rosa





## Wednesday, February 3

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| 7:30 am          | Continental Breakfast<br>Registration Continues<br>Location: Bella Rosa   |
| 8:00             | <b>Opening Remarks</b><br>NIF User Office, Kevin Fournier   |
| 8:10             | <b><i>Status of Ignition Experiments on the NIF</i></b><br>Daniel Casey, Lawrence Livermore National Laboratory                 |
| 8:40             | <b><i>LLNL Center for HED Science</i></b><br>Rip Collins, Lawrence Livermore National Laboratory                                |
| 9:00             | <b>User Needs on NIF/JLF</b><br>Chair, NIF User Group, Don Lamb<br>Chair, JLF User Group, Carolyn Kuranz                        |
| 10:00-12:00 p.m. | <b>Break and Poster Session III</b>   |
| 12:00            | <b>Poster Awards and Summary Wrap-up Discussion</b><br>Chair, NIF User Group, Don Lamb<br>Chair, JLF User Group, Carolyn Kuranz |
| 12:30            | Lunch   |
| 1:30             | NIF and JLF Tours   |
| 4:30 p.m.        | Adjourn   |